

Appl. No. 10/811,415
Amdt. Dated November 7, 2007
Reply to Office Action of September 19, 2007

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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-7 (canceled)

Claim 8 (currently amended): A method for making a carbon nanotube-based field emission device comprising steps of:

providing a substrate having a flat surface which has a variation in flatness of less than 1 micron;

forming a carbon nanotube array extending from a selected area of the surface of the substrate by a chemical vapor deposition process, the carbon nanotube array having a flat bottom surface corresponding to the flat surface of the substrate;

forming a cathode electrode on a top of the carbon nanotube array; and
removing the substrate so as to expose the flat bottom surface of the carbon nanotube array so that the flat bottom surface of the carbon nanotube array is thereby configured for acting as an electron emitting surface of the carbon nanotube-based field emission device.

Claim 9 (canceled)

Claim 10 (previously presented): The method as described in claim 8, wherein the flat bottom surface of the carbon nanotube array is treated by laser irradiation to clean the flat bottom surface thereof.

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Claim 11 (original): The method as described in claim 8, wherein the substrate is made of heatproof glass, silicon, or silicon oxide.

Claim 12 (previously presented): The method as described in claim 8, wherein further forming at least one gate electrode adjacent to the carbon nanotube array.

Claims 13-17 (canceled)